

PERSONAL IDENTIFICATION DEVICE AND METHOD

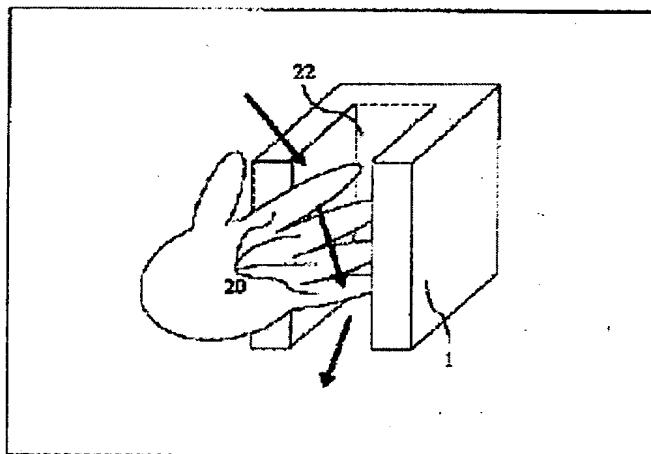
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EP1187055 (A2)
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PROBLEM TO BE SOLVED: To realize high-accuracy personal identification under environment requiring a non-contact property, even though using an unclear finger vein pattern image with positional shift. **SOLUTION:** This personal identification device has a means of acquiring the finger vein pattern image in a non-contact state; a means of executing rotational correction by the use of outline of fingers as a method for extracting a vein pattern, included in the acquired image; a means of normalizing the position of a finger image on the basis of the fingertips; a means of statistically acquiring the overall vein pattern, by repeatedly tracing portions dark in luminance from an arbitrary position of the image by an arbitrary length; a matching means of comparing only the portions showing distinctive features in the blood vessel pattern; and a means of dividing the image into small areas, independently executing matchings by each small area, and estimating positional shift amount, when there is matching.

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